

JB PACIFIC

Specialists in extreme
weather engineering.

Focussing on natural disaster
analysis, prediction and protection

JBP
scientists
and engineers



Flooding



Coastal Hazards



Civil Design



Coastal Design



Forecasting Systems



Flooding and Catchments:

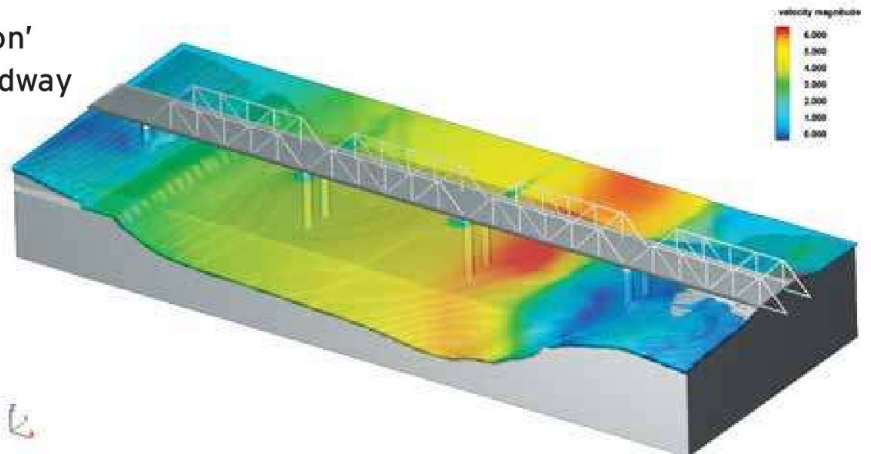
National-scale to catchment-specific flood, drainage and hydrological studies.

- Hydraulic studies
- Hydrological studies
- Hydrologist reports
- Flood risk management plans
- Storm water management
- Yield and Water Balance Assessments
- Dam Failure Impact Assessments

Civil and Stormwater:

Concept, detailed and 'For Construction' designs for civil, storm water and floodway projects.

- Road and culverts
- Detention basins
- Drainage studies and upgrades
- Priority Infrastructure Plans
- Full documentation
- Bridge assessments



Marine, Waterway and Coastal:

Concept, detailed and 'For Construction' designs, supported by site investigations and modelling.

- Boat ramps, RORO
- Marine structures
- Waterway protection
- Groyne and breakwaters
- Seawall and revetments
- Canal designs and remediation
- Asset inspections
- Nourishment design

Coastal Hazards:

Field investigations and modelling for tide, surge, erosion and wave overtopping.

- Coastal assessments
- Hazard studies
- Engineering assessments
- Dredge studies
- Beach nourishment
- Erosion assessments
- Storm tide modelling



Forecasting & Early Warning Systems:

Our systems are used by Councils, governments and industry to offer advanced warning for upcoming storms, floods, cyclones and erosion events.

- Live operational environments
- Delft-FEWS configuration
- Multi-user platforms
- Integration within Incident Management Systems

Experts in the events that affect us

In recent years, extreme weather and natural disasters have had unprecedented impacts. Further impacts due to global warming over the next two decades is inevitable, with increased sea-levels, more intense tropical cyclones, eroding shorelines and more regular flooding projected.

Our work builds extreme weather resilience into planning, engineering, and disaster management systems. This includes new design-event modelling, risk mapping, detailed designs, and specification of materials able to withstand more severe events.



Have an extreme weather problem you would like to discuss?

Please get in touch with our consultants below.
We look forward to hearing from you.

JBP
scientists
and engineers

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Part of the JBA family

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